

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P641475

Luminaire Tested: GWS-SA5F-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32026.3 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

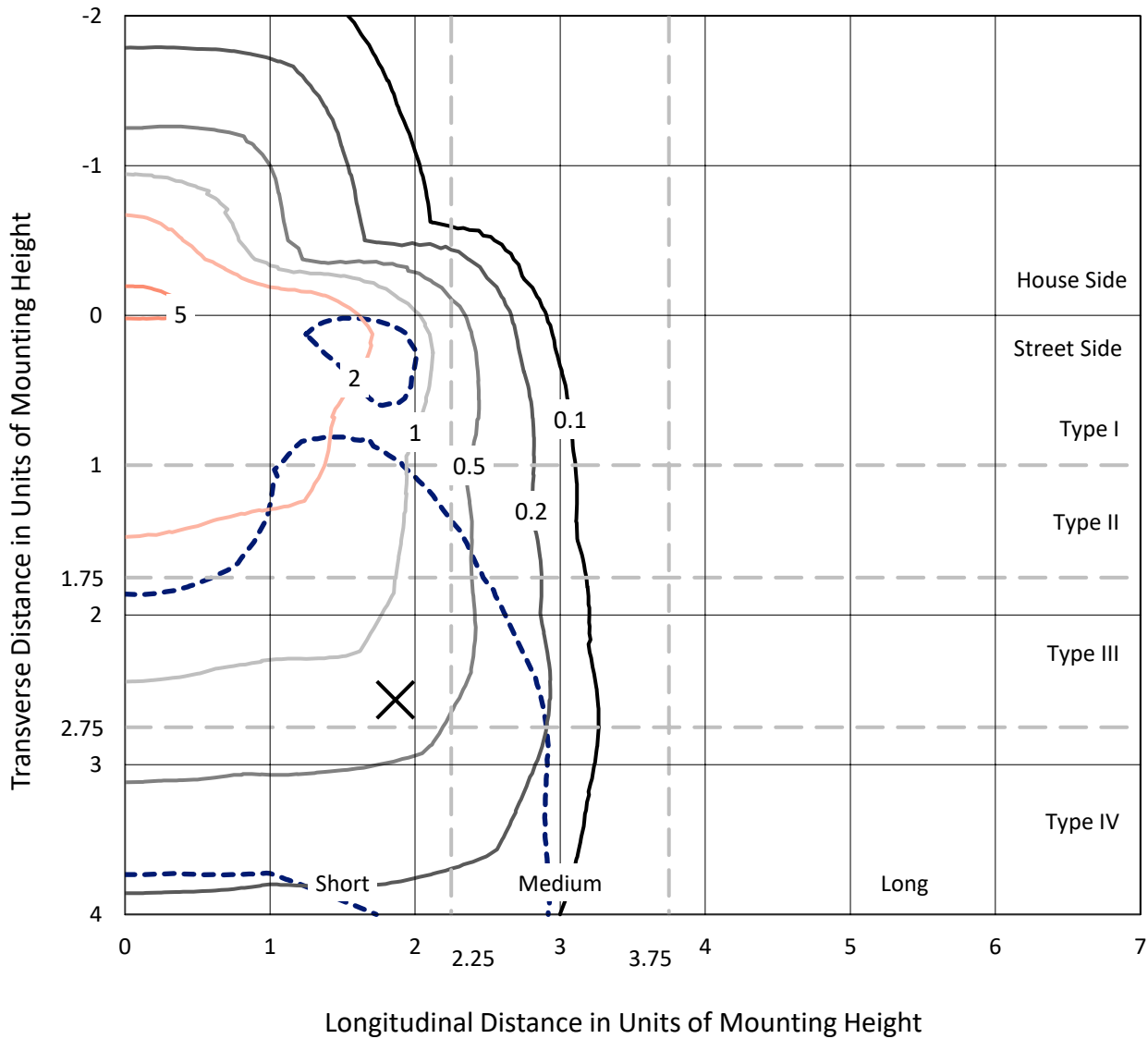
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

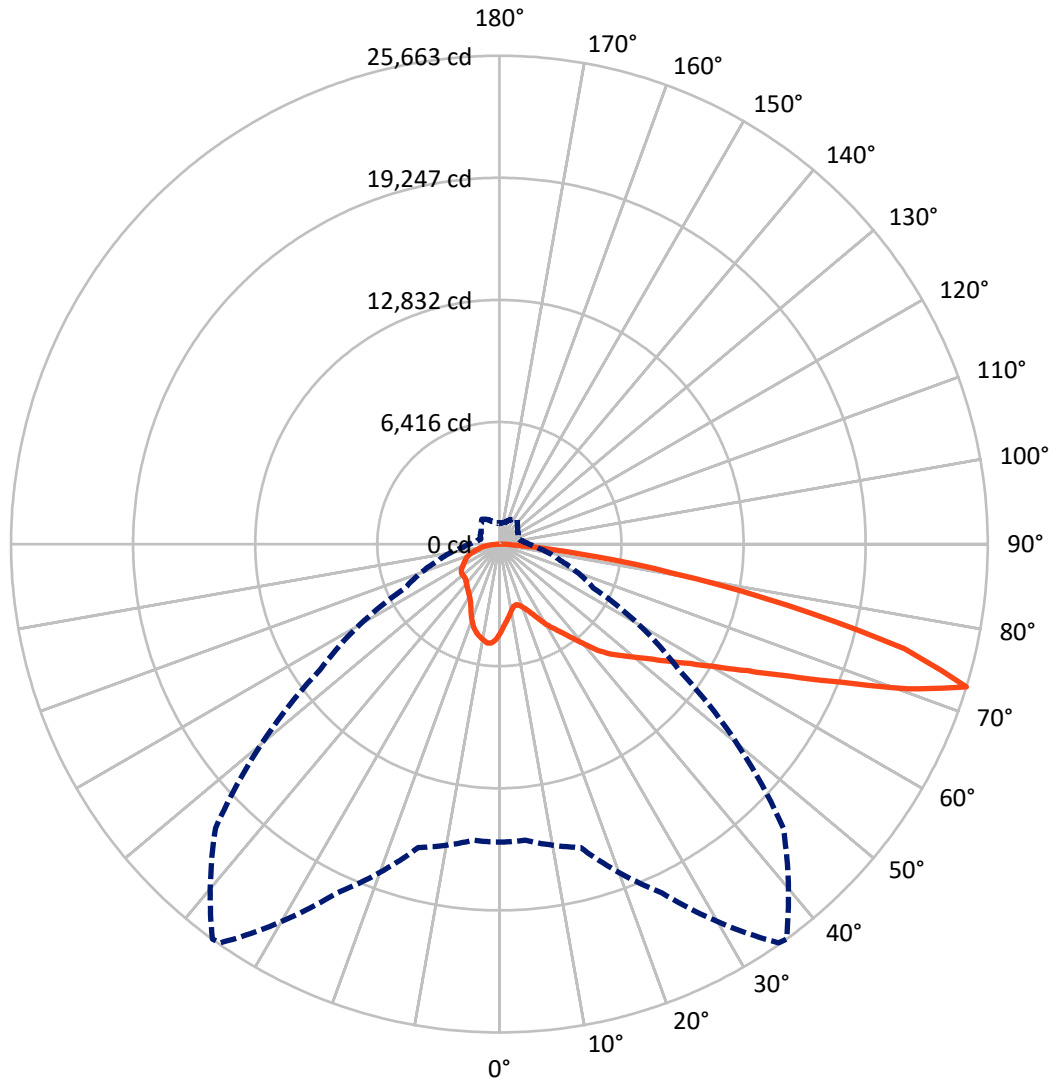
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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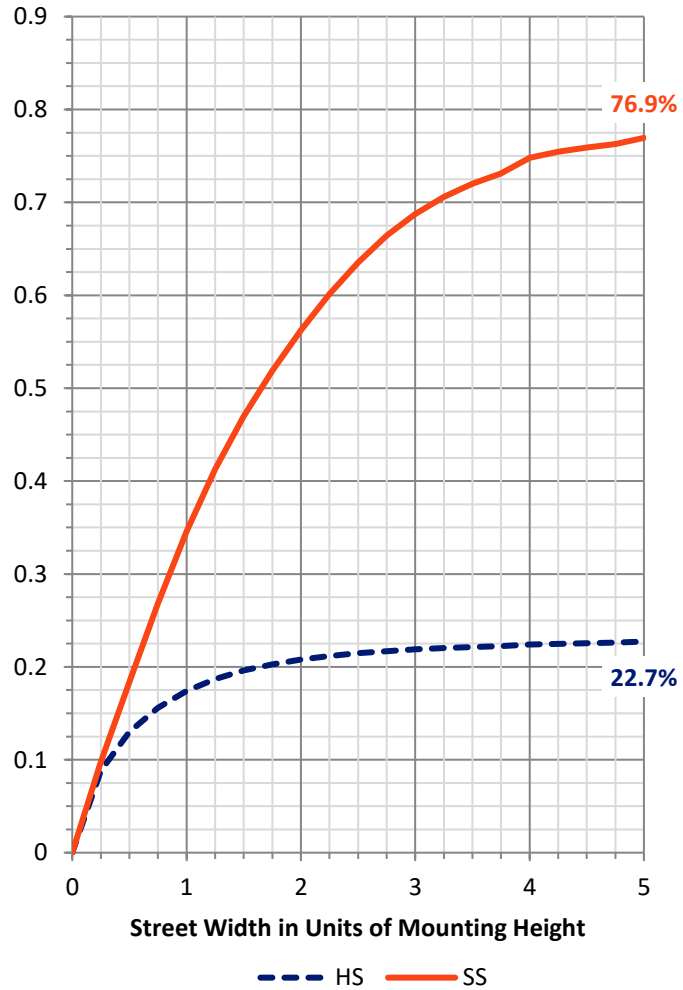
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7383.4 | 0.0 | 7383.4 |
| | % Fixture | 23.1 | 0.0 | 23.1 |
| Street Side | Lumens | 24642.9 | 0.0 | 24642.9 |
| | % Fixture | 76.9 | 0.0 | 76.9 |
| Total | Lumens | 32026.3 | 0.0 | 32026.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 438.1 | 1.4 |
| 10°-20° | 1236.1 | 3.9 |
| 20°-30° | 2047.2 | 6.4 |
| 30°-40° | 3065.8 | 9.6 |
| 40°-50° | 4472.8 | 14.0 |
| 50°-60° | 6366.1 | 19.9 |
| 60°-70° | 8043.1 | 25.1 |
| 70°-80° | 5731.4 | 17.9 |
| 80°-90° | 625.7 | 2.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 32026.3 | 100.0 |
| 0°-180° | 32026.3 | 100.0 |

Coefficient of Utilization



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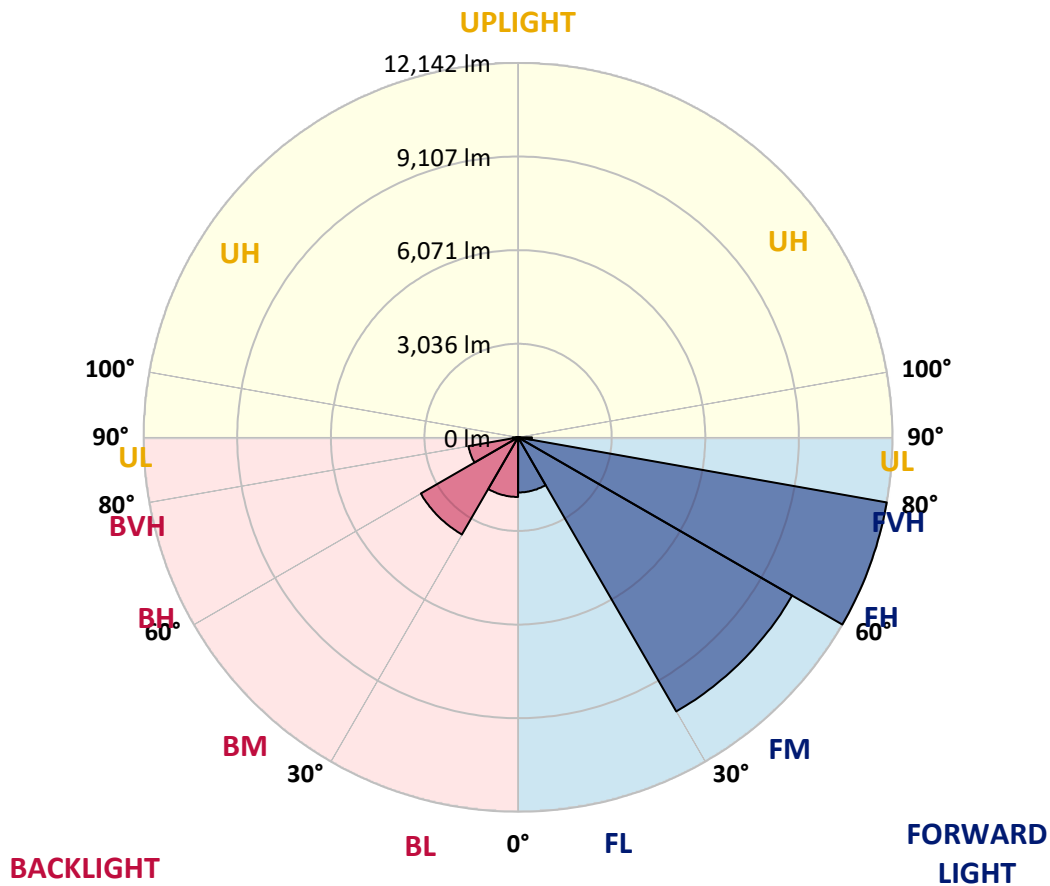
CATALOG NUMBER: GWS-SA5F-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1787.9 | 5.6 | | | |
| FM (30°-60°) | 10263.6 | 32.0 | | | |
| FH (60°-80°) | 12142.2 | 37.9 | | | G5 |
| FVH (80°-90°) | 449.1 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1933.5 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3641.1 | 11.4 | B3/5000 | | |
| BH (60°-80°) | 1632.3 | 5.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 176.6 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 |
| 2.5° | 4276.0 | 4268.9 | 4254.6 | 4297.4 | 4340.2 | 4335.4 | 4394.8 | 4451.9 | 4513.7 | 4577.9 | 4663.4 |
| 5° | 3933.7 | 3929.0 | 3917.1 | 3981.3 | 4045.4 | 4043.1 | 4140.5 | 4233.2 | 4359.2 | 4497.0 | 4668.2 |
| 7.5° | 3591.5 | 3579.6 | 3596.2 | 3677.0 | 3767.3 | 3776.9 | 3910.0 | 4062.1 | 4245.1 | 4451.9 | 4694.3 |
| 10° | 3289.6 | 3287.2 | 3294.3 | 3384.7 | 3520.1 | 3529.7 | 3700.8 | 3912.3 | 4154.8 | 4430.5 | 4753.7 |
| 12.5° | 3211.2 | 3206.4 | 3187.4 | 3232.5 | 3334.8 | 3349.0 | 3536.8 | 3795.9 | 4093.0 | 4442.4 | 4834.6 |
| 15° | 3339.5 | 3327.6 | 3261.1 | 3239.7 | 3289.6 | 3301.5 | 3460.7 | 3726.9 | 4057.3 | 4463.8 | 4936.8 |
| 17.5° | 3560.6 | 3553.4 | 3427.5 | 3339.5 | 3372.8 | 3382.3 | 3501.1 | 3715.1 | 4047.8 | 4506.6 | 5062.7 |
| 20° | 3883.8 | 3852.9 | 3655.6 | 3522.5 | 3522.5 | 3536.8 | 3608.1 | 3767.3 | 4059.7 | 4558.8 | 5205.4 |
| 22.5° | 4311.6 | 4249.8 | 3971.8 | 3791.1 | 3743.6 | 3762.6 | 3793.5 | 3898.1 | 4109.6 | 4646.8 | 5383.6 |
| 25° | 4791.8 | 4734.7 | 4404.3 | 4150.0 | 4083.5 | 4090.6 | 4064.5 | 4083.5 | 4218.9 | 4768.0 | 5604.7 |
| 27.5° | 5302.8 | 5264.8 | 4913.0 | 4589.7 | 4485.2 | 4485.2 | 4392.5 | 4347.3 | 4371.1 | 4905.9 | 5851.9 |
| 30° | 5759.2 | 5706.9 | 5409.8 | 5055.6 | 4917.7 | 4917.7 | 4741.9 | 4644.4 | 4587.4 | 5074.6 | 6182.2 |
| 32.5° | 5999.2 | 5968.3 | 5771.0 | 5500.1 | 5331.3 | 5305.2 | 5153.1 | 5039.0 | 4905.9 | 5324.2 | 6629.1 |
| 35° | 6313.0 | 6305.8 | 6187.0 | 5975.5 | 5761.5 | 5723.5 | 5618.9 | 5528.6 | 5298.0 | 5635.6 | 7223.3 |
| 37.5° | 6707.5 | 6695.6 | 6676.6 | 6550.7 | 6294.0 | 6286.8 | 6194.1 | 6084.8 | 5785.3 | 6084.8 | 7943.5 |
| 40° | 7149.6 | 7128.2 | 7104.5 | 7102.1 | 6947.6 | 6921.5 | 6914.3 | 6790.7 | 6372.4 | 6626.7 | 8694.6 |
| 42.5° | 7758.1 | 7684.4 | 7461.0 | 7560.8 | 7674.9 | 7651.2 | 7741.5 | 7556.1 | 7104.5 | 7270.9 | 9405.3 |
| 45° | 8506.8 | 8326.2 | 7884.1 | 7912.6 | 8200.2 | 8247.7 | 8561.5 | 8516.3 | 7910.2 | 8014.8 | 10154.0 |
| 47.5° | 8956.1 | 8799.2 | 8388.0 | 8364.2 | 8723.1 | 8782.5 | 9464.7 | 9550.3 | 8777.8 | 8910.9 | 11078.6 |
| 50° | 9324.5 | 9215.1 | 8877.6 | 8910.9 | 9291.2 | 9350.6 | 10360.8 | 10543.8 | 9595.4 | 9828.4 | 12152.9 |
| 52.5° | 9768.9 | 9612.1 | 9350.6 | 9507.5 | 9973.4 | 10044.7 | 11356.7 | 11554.0 | 10332.3 | 10836.2 | 13265.3 |
| 55° | 10018.5 | 9954.3 | 9959.1 | 10199.2 | 10783.9 | 10881.3 | 12400.1 | 12366.9 | 11007.3 | 11699.0 | 14102.0 |
| 57.5° | 10593.7 | 10570.0 | 10788.6 | 10878.9 | 11729.9 | 11855.8 | 13443.6 | 13158.4 | 11620.5 | 12366.9 | 14503.7 |
| 60° | 11608.6 | 11549.2 | 11739.4 | 11877.2 | 12899.3 | 13077.6 | 14608.3 | 13933.2 | 12036.5 | 12863.6 | 14368.2 |
| 62.5° | 13034.8 | 12961.1 | 12968.2 | 13186.9 | 14465.6 | 14653.4 | 15903.7 | 14579.7 | 12164.8 | 12939.7 | 13510.1 |
| 65° | 14807.9 | 14701.0 | 14579.7 | 14876.8 | 16545.4 | 16702.3 | 17313.1 | 15050.4 | 11858.2 | 12207.6 | 11718.0 |
| 67.5° | 16678.5 | 16590.6 | 16448.0 | 17070.7 | 19238.4 | 19333.5 | 18893.8 | 15009.9 | 10886.1 | 10249.1 | 8219.2 |
| 70° | 16787.9 | 16809.2 | 17484.3 | 19737.5 | 22753.8 | 22777.6 | 20388.8 | 14197.1 | 8815.8 | 6643.4 | 4095.4 |
| 72.5° | 15661.2 | 15625.6 | 16505.0 | 20224.8 | 25582.3 | 25663.1 | 21094.7 | 11501.7 | 5447.8 | 3313.4 | 1920.5 |
| 75° | 12721.0 | 12782.8 | 13707.4 | 17695.8 | 21926.6 | 21998.0 | 17196.7 | 6781.2 | 2588.4 | 1621.0 | 1228.8 |
| 77.5° | 5476.3 | 5821.0 | 7644.0 | 12466.7 | 15704.0 | 15482.9 | 8863.4 | 2747.7 | 1381.0 | 1155.2 | 941.2 |
| 80° | 1580.6 | 1716.1 | 2723.9 | 5927.9 | 9410.0 | 9243.7 | 3508.3 | 1029.2 | 962.6 | 867.6 | 675.0 |
| 82.5° | 511.0 | 565.7 | 998.3 | 2360.2 | 4216.6 | 4211.8 | 1331.0 | 608.5 | 629.9 | 589.5 | 435.0 |
| 85° | 142.6 | 164.0 | 306.6 | 715.4 | 1304.9 | 1278.8 | 385.1 | 287.6 | 335.1 | 339.9 | 216.3 |
| 87.5° | 0.0 | 0.0 | 2.4 | 4.8 | 4.8 | 4.8 | 9.5 | 42.8 | 97.5 | 123.6 | 87.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: GWS-SA5F-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 | 4687.2 |
| 2.5° | 4715.7 | 4708.6 | 4806.0 | 4882.1 | 4953.4 | 5000.9 | 5015.2 | 5024.7 | 5043.7 | 5053.2 | 5043.7 |
| 5° | 4749.0 | 4784.6 | 4946.3 | 5065.1 | 5160.2 | 5217.2 | 5219.6 | 5214.9 | 5229.1 | 5217.2 | 5210.1 |
| 7.5° | 4820.3 | 4889.2 | 5093.6 | 5219.6 | 5281.4 | 5283.8 | 5226.7 | 5160.2 | 5126.9 | 5098.4 | 5088.9 |
| 10° | 4915.4 | 5017.6 | 5241.0 | 5324.2 | 5305.2 | 5217.2 | 5091.3 | 4986.7 | 4927.3 | 4884.5 | 4875.0 |
| 12.5° | 5046.1 | 5160.2 | 5371.7 | 5369.4 | 5250.5 | 5093.6 | 4946.3 | 4820.3 | 4734.7 | 4684.8 | 4668.2 |
| 15° | 5169.7 | 5314.7 | 5466.8 | 5355.1 | 5167.3 | 4977.2 | 4787.0 | 4618.3 | 4504.2 | 4425.7 | 4411.5 |
| 17.5° | 5321.8 | 5476.3 | 5535.7 | 5309.9 | 5062.7 | 4817.9 | 4563.6 | 4342.5 | 4188.0 | 4095.4 | 4088.2 |
| 20° | 5497.7 | 5635.6 | 5569.0 | 5231.5 | 4927.3 | 4606.4 | 4261.7 | 4014.5 | 3848.2 | 3757.8 | 3765.0 |
| 22.5° | 5702.1 | 5801.9 | 5578.5 | 5124.5 | 4739.5 | 4306.9 | 3921.8 | 3684.2 | 3572.4 | 3524.9 | 3527.3 |
| 25° | 5920.8 | 5985.0 | 5561.9 | 4979.5 | 4451.9 | 3940.9 | 3572.4 | 3463.1 | 3453.6 | 3441.7 | 3446.5 |
| 27.5° | 6179.9 | 6165.6 | 5512.0 | 4775.1 | 4064.5 | 3515.4 | 3327.6 | 3356.1 | 3394.2 | 3389.4 | 3394.2 |
| 30° | 6526.9 | 6391.4 | 5447.8 | 4492.3 | 3603.3 | 3158.9 | 3182.6 | 3263.4 | 3313.4 | 3318.1 | 3332.4 |
| 32.5° | 6923.8 | 6641.0 | 5345.6 | 4107.2 | 3163.6 | 2959.2 | 3047.2 | 3144.6 | 3204.0 | 3215.9 | 3234.9 |
| 35° | 7396.8 | 6926.2 | 5164.9 | 3627.1 | 2847.5 | 2840.4 | 2921.2 | 2987.7 | 3051.9 | 3056.7 | 3056.7 |
| 37.5° | 7941.1 | 7211.4 | 4877.3 | 3097.1 | 2652.6 | 2738.2 | 2814.2 | 2828.5 | 2845.1 | 2830.9 | 2838.0 |
| 40° | 8440.3 | 7487.1 | 4468.5 | 2614.6 | 2493.3 | 2647.8 | 2712.0 | 2664.5 | 2612.2 | 2576.5 | 2583.7 |
| 42.5° | 8858.6 | 7674.9 | 3926.6 | 2277.0 | 2331.7 | 2567.0 | 2616.9 | 2519.5 | 2417.3 | 2350.7 | 2360.2 |
| 45° | 9329.2 | 7848.4 | 3289.6 | 2048.9 | 2193.9 | 2510.0 | 2543.3 | 2417.3 | 2286.6 | 2186.7 | 2172.5 |
| 47.5° | 9978.1 | 8202.6 | 2723.9 | 1889.6 | 2096.4 | 2479.1 | 2533.7 | 2362.6 | 2191.5 | 2041.7 | 2025.1 |
| 50° | 10779.1 | 8704.1 | 2250.9 | 1785.0 | 2051.2 | 2462.4 | 2531.4 | 2303.2 | 2098.8 | 1922.9 | 1911.0 |
| 52.5° | 11653.8 | 9193.7 | 1901.5 | 1704.2 | 2006.1 | 2412.5 | 2519.5 | 2236.6 | 2001.3 | 1811.2 | 1796.9 |
| 55° | 12236.1 | 9386.3 | 1666.2 | 1628.2 | 1932.4 | 2334.1 | 2471.9 | 2172.5 | 1854.0 | 1680.4 | 1659.1 |
| 57.5° | 12407.3 | 9139.1 | 1502.2 | 1559.2 | 1837.3 | 2224.8 | 2381.6 | 2037.0 | 1763.6 | 1625.8 | 1609.1 |
| 60° | 12112.5 | 8516.3 | 1400.0 | 1502.2 | 1732.7 | 2084.5 | 2224.8 | 1958.5 | 1692.3 | 1568.7 | 1556.9 |
| 62.5° | 11280.6 | 7556.1 | 1321.5 | 1442.8 | 1625.8 | 1937.2 | 2124.9 | 1863.5 | 1613.9 | 1516.4 | 1499.8 |
| 65° | 9607.3 | 6196.5 | 1257.4 | 1381.0 | 1523.6 | 1796.9 | 2015.6 | 1768.4 | 1528.3 | 1454.6 | 1435.6 |
| 67.5° | 6719.4 | 4352.1 | 1188.4 | 1307.3 | 1421.4 | 1661.4 | 1901.5 | 1680.4 | 1440.4 | 1385.7 | 1366.7 |
| 70° | 3284.8 | 2307.9 | 1105.2 | 1221.7 | 1312.0 | 1523.6 | 1787.4 | 1573.5 | 1323.9 | 1293.0 | 1266.9 |
| 72.5° | 1564.0 | 1290.6 | 1007.8 | 1105.2 | 1162.3 | 1340.6 | 1597.3 | 1419.0 | 1186.1 | 1119.5 | 1074.3 |
| 75° | 1048.2 | 917.5 | 879.4 | 967.4 | 981.6 | 1124.3 | 1369.1 | 1224.1 | 1045.8 | 969.8 | 931.7 |
| 77.5° | 793.9 | 701.2 | 739.2 | 817.6 | 789.1 | 924.6 | 1126.6 | 1091.0 | 943.6 | 874.7 | 855.7 |
| 80° | 558.6 | 511.0 | 587.1 | 634.6 | 613.2 | 786.7 | 1014.9 | 934.1 | 777.2 | 701.2 | 686.9 |
| 82.5° | 351.8 | 342.3 | 432.6 | 439.7 | 446.9 | 622.7 | 834.3 | 734.5 | 603.7 | 496.8 | 461.1 |
| 85° | 175.9 | 194.9 | 259.1 | 259.1 | 256.7 | 320.9 | 475.4 | 413.6 | 325.6 | 259.1 | 251.9 |
| 87.5° | 59.4 | 83.2 | 111.7 | 90.3 | 68.9 | 54.7 | 61.8 | 76.1 | 80.8 | 78.4 | 78.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)